150



A CONTRACTOR

## SEQUENCE LISTING

<!10> Findsvogel, Wayne R.
Topouzis, Stavros

## <120> SOLUBLE ZCYTOR11 CYTOKINE RECEPTORS

(130 > 00 - 56)

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· 151> 2000 08-08

<150> US 60/250.876

<151> 2000-12-01

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1 5

tig act gig aga too dig got got dad god oot gag gad ood tog gat 102 Leu Thr Val Gly Ser Leu Ala Ala His Ala Pro Glu Asp Pro Ser Asp 10 15 20

ctg oto dag dad gtg ada tto dag too ago add ttt gad add ato otg Leu Leu Gln His Val Lys Phe Gln Sen sen Asn Phe Glu Asn Ile Leu 25 - 30 - 35

							agc Gly									198
		_	_				agg Arg	-		-						246
							tgc Cys									294
							agg Ang 95	_								342
		_		-	-		gac Asp	., .		-		_				390
							acc Thr									438
_	_		-				ood Pro					-				486
					_	~	atc He			-	-					534
			-				tac Tyr 175		_							582
							ctg Leu									630
ac.	atc	ata	att	tigo	ut t	\$18_£	ACC	tga	qu.	Dht	144	<b>3</b> □†	10.0	10	tac	A 18

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	1 +214		1		tat Tyr	/al		!					822
					gte Val								870
					cct Pro 285								918
					tac Tyr								966
					cag Gln								1014
					tec Ser	$\Pi e$		GIn					1062
-					rta 1.44								1110
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						Sist.						],* 3r
						tgq Trp						1254
						ecc Pro 415						1302
						ctt Leu						1350
_						ctg Leu		 		-		1398
						tca Ser						1446
	-					aat Asn	-					1494
		-				cag Gln 495						1542
						ctc Leu						15.90
				À .; i		cca Pro				~		1638
			ļ · •			ace Ala						1686

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Asp Leu Glu Gln Pro The laid rour Asp Ser Lou The Arq Gly Leu Ala
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                                                   265
ctg act gtg dag tgg gag tor tgaggggaat gggaaaggot tggtgdtdd
                                                                    1785
Leu Thr Val Gln Trp Glu Ser
        F, 70
                                                                    1845
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                                                                    C(0)
                                                                    2085
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Ī
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                                                        15
Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His val Lvs Phe Gln Ser
ser Asn Phe Glu Asn Ile Leu Ihr Trp Asp Ser Gly Pro Glu Gly Ihr
            45
    58
Pro Asp The val Tve See I'm Glu Tve tys The Tve Glv Glu Arg Asp
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	The	. :	, i ,	to p	1	271	. ****	• • •	1 i i i i 12 i	į **** •	***	T <sub>e</sub> r	· · · :	Ar 4 98	
Thr	Ala	v (t )	- (1) 1:)(}		tal <sub>e</sub> v	uly		serri Historia			Lys	Met	Thr 110	ASD	Arq
Phe	Ser	Ser 115	[	i, In	His	Thr	Ihr 120	1	į ,·,	EPY + i	Fro	Asp 125	Val	Thir	()55
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1-1->					150	***				155			'		Photo 160
	,		Ph.	165					100					175	
			180					185	-				190		Thr
	,	195	Glu			ž.	200				ef.	205			
	.10		Ser			215					220				
225			Thr		230			*		235					240
			Ala	245					250			-		255	
			Pro 260					265					270		
		5.2					280					285			
	290		Pro			295					300				
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			3.1()					345					350)		Ala
		ξί,					360)					365			\al
	570		Alg			$_{i}\in \mathbb{M}_{j}$					380				
₹85 385	.1111	1.1		1	, t 201 i	·· † 4	+/f** ]	1 ! * .	1	i hir Val	۰ ۲` ۱	±3p	` + p = T `	a E Lo	4 · 0.00

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×213× Humo sapient

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Pro Glu Asp Pro Ser Ali Ev. Leu Gln Hos val Lis Phe Gln Ser Ser - 1 - E<sub>V</sub> 111 Ash Phe Gla Ash [to tak the Tep Asp Son Gla Pre Glu Gly The Pro 25 30 Asp Thr (at Evr Ser The abs Evr Lys Thr Evr Gla Glu Ang Asp Erp .10 al Alacos extalos o din and The Thin And two Sen Cvs Asin Leu the gaingle itemate a common temperature iven Ala Arg val Thr Alaryai se Alarai, ais Anarsen Alaribe ayo Met Thr Asp Ang Phe 8

Seriser tografices the The organization Pro Asp Val The No. No. 1 1 1 Seritys .al Ard on The Glo Met The val His Pro The Pro Inc Pro 120 125 ile Ang Ala ol: Asp Gly His And Leu Thr Leu Glu Asp Ile Phe His -135Asp Leu Phe Tyr His Leu Glu Leu Gln Val Ash Arg Thr Tyr Gln Met 145 155 His Leu Gly Gly Lys Gln Ard Glu Tyn Glu Phe Phe Gly t⊕u Thr Pro 170 165 Asp Thr Gla Che Lou Gly Thr Ile Met Ile Cys Val Pro Thr Trp Ala 180 185 190 tus Glu Sen Ala Pri Tyr Met Cys Ang Val Lys Thr Leu Pro Asp And 195 200 205 The Irp Ibn 210 ·(210):- 4  $\cdot:$ 211:- 6 42125 PRT 국위3대 Antificial Sequence +:22(b+ <?23> Glu-Glu peptide tag -4.100 - 4Glu Tyr Met Pro Met Glu 4,710% 5 -111 × 8 4,12> PRI <.'13> Artificial Sequence <( $^{\circ}$  $^{\circ}$ )><223 Flattarpoptide

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1

Asp Tyr Linds Asp Asp Asp Livs

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· 111> 694
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                                                                           240
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                                                                           300
                                                                           360
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quitquetque chauquasca qqitcaqeetq acciqeetqq itcaaaqqett etaicecaqe
                                                                           480
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qadateqeeq tqqaqtqqqa qaqdaatqqq daqeeqqaqa acaactadaa qacdaeqeet
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decopageting actoography objects to stotacagea anothering agacaan and
uggtggcage aggggaacgt etteteatge teegtgatge atgaggetet geacaaceae
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tacacgoaga agageetete eetqteteeg ggtaaataa
                                                                           699
·:(11):- 7
-111 \cdot 1116
-212 - DNA
\pm .113\pm homo sapiens
マプロ)・
40011 CDS
<??2> (21)...(557)
<400:- 7
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todayttaga attgtotgda atg god god otg dag aaa tot gtg agd tot tto
                        Met Ala Ala Leu Glin Lys Sen Val Sen Sen Phe
                                           Ε,
                                                                10
                         1
                                                                          101
cit atg ggg accletg goe acclage tge etclett etclitig ged etclitig
Leu Met Gly Thr Leu Ala Thr Ser Cys Leu Leu Leu Leu Ala Leu Leu
             15
                                   20
                                                         25
gta cag gowlega you got gog soo who was too sas tige agg off gas
                                                                          149
Val Gln Gls Glz Ala Ala Ala Pro Ile Ser Ser His Cys Arg Leu Asp
                               25,
         30
                                                                          197
add to claim the carpeagless tall also also dark our accounts at a literature.
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Tvs Son Ash Phe Glo Glo Pro I.e Ile Ibn A 45	on Ing The Pha Met Ley AG
get aag gag get age tty get dat aac aac ac Ala Lys Glu Ala Ser Leu Ala Asp Ash Ash Th 60 - 65 - 7	
ggg gad aaa otg tto dad dda dto agt atg ad Gly Glu Lys Leu Phe His Gly Val Sen Met Se 80 - 85	
atg and dag gtg dtg aad ttd acc ott gaa gd Met Lys Glm Val Leu Asm Phe Thm Leu Glu G 95 100	
tot gat agg tto dag oot tat atg dag gag gt Sen Asp Ang Phe Gln Pno Tyn Met Gln Glu Va 110 - 115	
agg sto age aac agg ota age aca tgt cat at Ang Leu Sen Asn Ang Leu Sen Thn Cys His I 125 130	
cat atc cag agg aat gtg caa aag ctg aag ga His Ile Glm Arg Asm Val Glm Eys Leu Eys As 140 145	
gga gag agt gga gag atc aaa gca att gga ga Gly Glu Ser Gly Glu Ile Lys Ala Ile Gly Gi 160	
atq tot otg aga aat god tgo att tgaccagago Met Sen Leu Ang Ash Ala Cys Ile 175	o agagotga <mark>aa aatgaat</mark> aac — 557
taaceceett teeetgetag aaataanaat tagatgeed aaaggaagat gqgaagenaa acteeateat gatgggtge tagttacaaa ggaaaceaat geeacttttg titataage catagatait taitgaiaac atticatigi aactggtgi attititaaa taattgiett titeeataaa aaagattac aaaceeetaa atagetteat giiteeataa teagtacti tattaffata agactgeatt tiäfftatat cattitaff	ga ttodaaatga accootgogt 70/ ac bagaaggtag abtttotaag 76/ tt otatacadag aaaacaattt 827 bt ttodatfoot ttaggggaaa 88/ ft atattfataa atgtatttat 94/ ta atalggatti atttatagaa 100/
-acateattko atattoetak (figadiotaa goktaata)	ti satattiato acaataatta 1660

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6.40 A + 4

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HCT10+ 12 HCT11+ 22 HCT2+ DNA HCT3+ Antificial Sequence	
RC200 RC23 - Oligonucleotide prime ZC14742	
-:400 - 12 thcalltiggt aggigggit ga	22
<pre>&lt;'10 + 13 &lt;'11 + 6 &lt;'12 + PRT &lt;213 + Antificial Sequence</pre>	
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-.4000 - 13
His His His His His His
]
<710>-14
<.'11> 63
<.12> DNA
-213 - Antificial Sequence
H. 200
~/23> Oligonucleotide primer /C29239
+1.10)(n-1.4
gaggeougat ocggttoggg ttogggttog gagdocagat datoagadaa aactoadada
                                                                          60
DOC
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42104-15
<.'11> 65
H.12H DNA
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+17200-
+:/23> Oligonucleotide primer ZC29232
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                                                                          60
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gagag
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-100
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ateggaatte gragaageda tggegtggag eettggg
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~211 + 28
* 31.1 * DNA
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	<210 > 18 <211 > 660 <212 > 0NA <213 > Homo Lapiens														
	+220 + +221 + 605 +222 > (1) ;	(66)	() )												
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	gca ttg gç Alaleu Gl		_						-	-					96
	aat ttc aa Asn Phe Ly 3														144
	aac otd ac Asn Leu Th Su														192
	aaa tge at Lys Cys Me 65														2.40
	aag tat do [vs [,r G]														288
	· 3 <sup>+</sup> · 1 · 1 :		41.1	: ·3·	±*	:		• :•		;* ;	1:1	: n;	11	: •	2.2 <i>6</i>

pri ser Ag Tri Tor		tea legion de la	om Challest Age 115	166-1166
			tt gat dat tot eu Asp Asp Ser 125	
atq cqt ttc fta Met Arq Phe Lou 130			qaa tac gaa act Mu Tyn Glu Thr 140	
atg aag aat gtg Met Lys Asn Val 145		Trp Thr Tyr A	aat gtg caa tac Asn Val Gln Tyr 155	
			.cc cag tat gac Pro Gln Fyr Asp	
gto oto aga aac Val leu Ang Asn 180			tat tgt gtt caa Fyr Cys Val Gln 190	
ggg ttt ctt c∈t Gly Phe Leu Pro 195				
tgt gag caa aca Cys Glu Gln Thr 210				660
-210> 19 -211> 220 -212> PRI ->213> Homo Sapte	ens.			
<pre>&lt;400 &gt; 19 Met Ala Tro Den T Ala Leu Gi, Met</pre>	÷,	10		1:,

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As the two Asn The territoring all Ser Pro Alg the Alattys all
                      1 1
Ashiou Thr Phe Im Alica'r Earleu Ser Ivr Ard Ile Phe Gln Asp
Lys Dys Met Ash Thr Thr tou Thr Glu Cys Asp Pho Son Ser Leu Ser
65 70 75
                                                 80
tys Tyn Gly Asp His Thr Lou Arg Val Arg Ala Glu Phe Ala Asp Glu
                     90
            85
His Sen Asp Trp Val Asm Ile Thr Phe Cys Pro val Asp Asp Thr Ile
                         105
The Glv Pro Pro Glv Met also val Glu Val Leu Asp Asp Ser Leu His
                              125
      115 120
Met Ang Phe Leu Ala Pro tys Ile Glu Ash Glu Tyn Glu Thn Thp Thn
130
Met Eys Ash Val Tyr Ash Sen Inp Thr Tyr Ash Val Glm Tyr Trp Lys
         150
                           155
Ash Gly Thr Asp Glu Lys Phe aln Ite Thr Pro Gln Tyr Asp Phe Glu
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            165
Valieu Arq Ash Leu Glu Pro Inp Thr Thr Tyr Cys Val Gln Val Arg
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Gly Phe Leu Pro Asp Ang Asm Hys Ala Gly Glu Trp Sen Glu Pro Val
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18

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<sup>&</sup>lt;220>

<sup>&</sup>lt;223 > Oligonucleotide premer /C38931

<sup>&</sup>lt;400 - 20

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<sup>&</sup>lt; 10 - 21

<sup>±011 + 82</sup> 

<sup>·</sup> MO · DNA

<sup>52138</sup> Artificial Sequence

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|  |   |   |   |   |   |   |   |   | 13†<br>204            |   |     |     | .સ.સ્ |
|--|---|---|---|---|---|---|---|---|-----------------------|---|-----|-----|-------|
|  |   |   |   |   | - | - |   |   | gat<br>Asp<br>125     |   |     |     | 384   |
|  |   |   |   |   |   |   |   | - | qaa<br>Glu            |   |     |     | 432   |
|  |   |   |   |   |   |   |   |   | Caa<br>Gln            |   |     |     | 480   |
|  |   |   | - | _ |   |   |   |   | tat<br>Tyr            | - |     |     | 528   |
|  | - |   | _ |   |   |   |   |   | gtt.<br>Val           |   | -   |     | 576   |
|  |   |   | - |   |   |   |   | - | <br>agt<br>Sen<br>205 |   |     | -   | 624   |
|  |   |   |   |   |   |   | _ |   | ggā<br>Gly            |   |     |     | 672   |
|  |   |   | - |   |   |   |   |   | cac<br>His            |   |     |     | 720   |
|  |   | - |   |   |   |   |   |   | qtc<br>val            |   |     |     | 768   |
|  |   |   |   |   |   |   |   |   | ACT<br>Three          |   | - 0 | 1.0 | 816   |

|     |     |      |     |              |     |     |      |      |    |     |     | -   |              | aaq<br>Lys          |    | 364  |
|-----|-----|------|-----|--------------|-----|-----|------|------|----|-----|-----|-----|--------------|---------------------|----|------|
|     |     |      |     |              |     |     |      |      |    |     |     |     |              | aaq<br>Lys          |    | 912  |
|     |     |      |     |              |     |     |      |      |    | -   |     |     | ~            | ctc<br>Leu          |    | 960  |
| -   | -   |      | -   | -            |     |     |      |      |    |     |     |     |              | a ag<br>Lyis<br>355 |    | 1908 |
|     |     |      |     |              |     |     |      |      |    |     |     |     |              | aaa<br>Lys          |    | 1056 |
|     |     |      |     | -            | _   |     | -    |      |    |     |     |     |              | tod<br>Sen          |    | 1104 |
| -   |     | -    |     |              |     |     |      |      |    |     | -   |     |              | aaa<br>Lys          |    | 1152 |
|     |     |      |     |              |     |     |      |      |    |     | -   |     |              | cag<br>Glm          | -  | 1200 |
|     |     |      |     |              |     |     |      |      |    |     |     |     |              | qqc<br>Gly<br>415   |    | 1248 |
|     |     |      |     |              |     |     |      |      |    |     |     |     |              | €aq<br>Gln          |    | 1296 |
| चवव | áàC | 11.0 | + + | † ( <b>1</b> | tqu | tec | qt i | a* 1 | 4‡ | qaq | act | eta | ( <b>a</b> ( | 144.                | а: | 1344 |

alv Asn val Phe second. Secondal Met His Glu Alager His Asn His 435 -4.1()1392 tac acq cag aag ago ofo for etg tot oog ggt aaa ofg gtt oog ogt Tyn Inn Gin Lys Sen Leu Sen Leu Sen Pro Gly Lys Leu Val Pro Arg 450455 46014.78 iggt too gga toa ggt ugo cat cao dat dad dat dae Gly Ser Gly Ser Gly Gly His His His His His His 470-475465 <210 + 23 <211+ 476 S212+ PRI <213: Homo sapiens <400 > 23 Met Ala Trp Ser Leu Gly Ser Trp Leu Gly Gly Cys Leu Leu Val Ser 1 5 10 Ala Leu Gly Met val Pro Pro Pro Glu Asn Val Ang Met Asn Sen Val Ash Phe Lys Ash Ile Leu Gln Trp Glu Ser Pro Ala Phe Ala Lys Gly 40 Ash Leu Thr Phe Thr Ala Gln Tyr Leu Ser Tyr Arg Ile Phe Gln Asp £0 55 60 Lys (ys Met Ash Thr Thr Leu Thr Glu (ys Asp Phe Ser Ser Leu Ser 70 75 65 lys Tyr Gly Asp His Thr Leu Arg Val Arg Ala Glu Phe Ala Asp Glu 90 His Ser Asp Inp Val Ash Ile Thr Phe Cys Pho Val Asp Asp Thr Ile 100 105 110 Ile Gl. Pro Pro Gly Met Glm Val Glu Val Leu Asp Asp Sem Leu His 120 -125Met Ang Phe Leu Ala Pro Lys Ile Glu Ash Glu Tyn Glu Thr Trp Thr 1.40 13.) Met Lys Ash Val Tyr Ash Ser Irp Thr Tyr Ash Val Glm Tyr Trp Lys 150 Ash Glz Thr Arp Glu Lys Phe Gln Ile Thr Pro Gln Tyr Asp Phe Glu 170 165 val Leu Ang Ash Leu Glu Pho Thp Thr Thr Tyr Cys Val Gln Val Ang 180 185 190

| 1114           | Fitner      | L<br>195   |      | Азр  | Arsq       |     | . •<br>. •91 |     | i i j | ulu        | Trip.      | oran<br>Qub | i ti | Fre  | √a1        |
|----------------|-------------|------------|------|------|------------|-----|--------------|-----|-------|------------|------------|-------------|------|------|------------|
| (. <b>y</b> ~, | cilu<br>210 | Gln        | Thr  | Ihr  | His        |     |              |     | f     | Pro        | Ser<br>220 | Gly         | Sert | Gly  | Ser        |
| ully<br>225    | ं भ्रहता ।  | Gly        | Sen  | ilu  | Pro<br>230 | Arg | Section      | Ser | Asp   | Lys<br>235 | Thir       | His         | Thr  | Cys  | Pro<br>240 |
|                | Cy5         |            |      | 1.45 |            |     |              |     | 250   |            |            |             |      | 255  |            |
|                | Pro         |            | 260  |      |            |     |              | 2h5 |       |            |            |             | 270  |      |            |
| Thr            | Суъ         | Val<br>275 | Val  | val  | ASD        | Val | Sem<br>280   | HIS | (il , | ASD        | Pro        | Glu<br>285  | val  | i yş | Phe        |
|                | 7rp<br>290  | •          |      |      |            | 295 |              |     |       |            | 300        |             |      |      |            |
| 305            | Glu         |            |      |      | 310        |     |              |     |       | 315        |            |             |      |      | 320        |
|                | Leu         |            |      | 325  |            |     |              | _   | 330   |            |            |             |      | 335  |            |
|                | Asn         |            | 340  |      |            |     |              | 345 |       |            |            |             | 350  |      |            |
| ÷.             | Gly         | 355        |      | -    |            |     | 360          |     |       |            |            | 365         |      |      |            |
| ·              | Glu<br>370  |            |      | ,    |            | 375 |              |     |       |            | 380        |             |      |      |            |
| 385            | Tyr         |            |      |      | 390        |     |              |     | ·     | 395        |            |             | -    |      | 400        |
|                | Asn         |            |      | 405  |            |     |              |     | 410   |            | ,          |             |      | 415  |            |
|                | Phe         |            | 4.20 |      | ·          |     |              | 425 |       |            |            |             | 430  |      |            |
|                | Asn         | 435        |      |      |            |     | 440          |     |       |            |            | 4.45        |      |      |            |
|                | Thr<br>450  |            |      |      |            | 455 |              |     |       |            | 460        | Leu         | val  | Pro  | Arg        |
| Gly<br>465     | Sen         | Gly        | Sen  | Gly  | G1;<br>4/∪ | His | His          | His | His   | His<br>475 | His        |             |      |      |            |

<210 = 24

<211 × 63

<212 - DNA

<213> Artificial Sequence

| <pre></pre> <pre>&lt;223 - Oligany Gentlede primer 2019005</pre>   |          |
|--|----------|
| ्येग्ण- २४<br>tougugggat तः gqttuggg ttogggttig gugi - uqat catougacaa auctuururu<br>tqo   | 60<br>63 |
| <pre></pre> <pre></pre> / 100 25 <pre></pre> <pre></pre> <pre><pre></pre> <pre></pre> <pre>Close Antiticial Sequence</pre></pre> |          |
| <ul> <li>20 s</li> <li>23 Oligonucleotide primer 7029231</li> </ul>  |          |
| ्रात्र्वेष्ट २५<br>इत्रबट्युक्टर्ट gagetaetee ataggeatat actegeeace tgateettta eeeggagaea<br>चुम्बुब्बु                          | 60<br>65 |
| <pre>xc10+ 26 xc10+ 70 xc12+ DNA xc13+ Artificial Sequence</pre>   |          |
| 表之的。<br>表立3m Oligonucleotide primer ZC39335  |          |
| ားမှုမှုမှ 26<br>atogqaatto goaqaagoda tgaggadgot gotgaddato ttgadtgtgg ggtoddtggd<br>tqotdadgod                                 | 60<br>70 |
| +0.10+ 27<br>+0.11+ 26<br>+0.12+ DNA<br>+0.13+ Antificial Sequence   |          |
| <.20 ·<br><223 · Oligonaciestide primer 2028981  |          |
| <400% 27<br>tttgggetes stragetetg gtggaa   | 26       |
|  |          |

∴ 10 + . ∀

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5. 11 · 50
(1/1)^2 \times 100\Delta
Clar Artificial Sequence
- /211 ·
<223> Oligonucleotide primer 2039043
<400> 28
                                                                          60
stynctouag ctactocata ugcatafact ogcoacotga torggaasca ogcggaacca
                                                                          80
gtttacccgg agadagggag
3210 \times 29
<211> 1457
<212 - DNA
<2:3> Artificial Sequence
<220>
<223> hzcytorll extracellular cytokine binding domain
      fused to IgGgl with a Glu-Glu tag
<221> CDS
<222> (1)...(1452)
<400> 29
atq agg acg etg etg acc atc ttg act gtg gga tec etg get get eac
                                                                         48
Met Ang Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala His
                 5
1
                                      10
                                                            15
                                                                         96
god oot gag gad ood tog gat otg otd dag dad gtg aaa tto dag tod
Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln Ser
             20
                                 25
                                                       30
ago aac tit gaa aac atc cig acg tgg gab ago ggg bra gag ggb acc
                                                                         1.1.1
Ser Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro Glu Gly Thr
        34
                             -40
                                                                         192
eccal gae actrufts tas age afe gag tat aag aeg tae gga gag agg dae
Pro Asplikr val Ivr Ser Ele Glu Ivr Ivs Thr Ivr Glv Glu Arg Asp
     1.(1)
                          1313
                                               60
                                                                        240
tga ata iki awa wag agkitatikwa nag wto woo oog wag tho tgo was
imp val Alagys (v. Giv cyclain Ara I'm Thr Ara I've Sor Cys Asn
6.45
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|     |     |     |      |      |      |     |       |   |     |   |      | tat<br>Tyr        |     |     |     |            | 288 |
|-----|-----|-----|------|------|------|-----|-------|---|-----|---|------|-------------------|-----|-----|-----|------------|-----|
|     |     |     |      |      |      |     |       |   |     |   |      | atg<br>Met        |     |     |     | 3          | 36  |
|     | _   |     |      |      |      |     |       |   |     |   |      | gat<br>Asp<br>125 |     |     |     | 3          | 884 |
|     |     |     |      |      |      |     |       |   |     |   |      | oat<br>Pro        |     |     |     | .1<br>**g  | 132 |
|     |     |     |      |      |      |     |       |   |     |   |      | gaa<br>Glu        |     |     |     | 4          | 180 |
|     | -   | -   |      |      |      |     | -     |   | -   |   |      | ogc<br>Ang        |     |     |     | Ę          | .28 |
| _   |     |     |      |      |      | _   |       |   |     |   |      | ttc<br>Phe        |     |     |     |            | 76  |
|     |     |     |      |      |      |     |       |   |     |   |      | gtt<br>Val<br>205 |     |     |     | $\epsilon$ | 24  |
|     | -   |     |      |      |      |     |       |   |     |   |      | aca<br>Thr        |     |     |     | 6          | 72  |
|     |     |     |      |      |      |     |       |   |     |   |      | gag<br>Glu        |     |     |     |            | '21 |
| tua | ydu | ddd | di ' | - 11 | a)Ca | tgr | * # J | ; | • ; | 1 | 30-3 | ict               | Gdd | фC; | 144 |            | 68  |

| et al.     | ASE | 1,5 | Thr | Hi .<br>246 | itu | <br>1             | ÷ r°-j⊭ | - ys<br>250 | FT : | ÷la | l r c : | 11111 | 41a<br>255 | Glu |      |
|------------|-----|-----|-----|-------------|-----|-------------------|---------|-------------|------|-----|---------|-------|------------|-----|------|
|            |     |     |     |             |     | tto<br>Phe        |         |             |      |     |         |       |            |     | 81n  |
|            |     |     |     |             |     | at∈<br>Val<br>280 |         | -           |      |     |         |       |            |     | 864  |
|            |     |     |     | -           |     | ttc<br>Phe        |         |             |      |     |         |       |            | -   | 912  |
|            |     |     | -   |             |     | ccg<br>Pro        | , .     |             |      | -   |         |       |            |     | 960  |
|            |     |     |     |             |     | acc<br>Thr        |         |             |      |     |         |       |            |     | 1008 |
|            |     |     |     |             |     | gtc<br>Val        |         |             |      |     |         |       |            |     | 1056 |
|            |     |     |     |             |     | gcc<br>Ala<br>360 |         |             |      |     |         |       |            | -   | 1104 |
| gtq<br>Val |     |     |     |             |     | caa<br>Ang        |         |             |      |     |         |       |            | -   | 1152 |
|            |     |     |     |             |     | ggc<br>Gly        |         |             |      |     |         |       |            |     | 1200 |
|            |     |     |     |             |     | 034<br>Pro        |         |             |      |     |         |       |            |     | 1248 |

| o atd otd dan top dan en to the tto otd tar admind to<br>Pro Valleu Asp Sen Asp II. Son Phe Phe Leu Tyn Sen Evs Leu<br>420 4.5 430                                   |           |  |  |  |  |  |  |  |  |  |  |  |
|--|-----------|--|--|--|--|--|--|--|--|--|--|--|
| gtq qan aag ago agg tgg cad - aq ggg aac gto tto toa tgo too<br>Val Asp Lys Sen Ang Inp Gln Gln Gly Asn Val Phe Sen Cys Sen<br>435 440 445                           |           |  |  |  |  |  |  |  |  |  |  |  |
| atq cat gaq get etg dad aad dad tad acg dag aag agd etd ted<br>Met His Glu Ala Leu His Ash His Tyr Thr Gln Lys Ser Leu Ser<br>450 455 460                            | -         |  |  |  |  |  |  |  |  |  |  |  |
| tot neg ggt maa etg gtt eeg egt ggt toe gga tem ggt gge gag<br>Sen Pro Gly Eys Leu Val Pro Ang Gly Sen Gly Sen Gly Gly Glu<br>465 470 475                            |           |  |  |  |  |  |  |  |  |  |  |  |
| atg cot atg gag<br>Met Pro Met Glu   | 1452      |  |  |  |  |  |  |  |  |  |  |  |
| <pre></pre>  |           |  |  |  |  |  |  |  |  |  |  |  |
| <pre>&lt;220&gt; &lt;223&gt; peptide encoded by the hzcytorll extracellular     cytokine binding domain fused to IgGgl with a     Glu-Glu tag of SEQ ID NO: 29</pre> |           |  |  |  |  |  |  |  |  |  |  |  |
| <ul><li>400 30</li></ul>   | 14.5      |  |  |  |  |  |  |  |  |  |  |  |
| Met And Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala<br>1 5 10 15   | HIS       |  |  |  |  |  |  |  |  |  |  |  |
| Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln<br>20 25 30  | Sen       |  |  |  |  |  |  |  |  |  |  |  |
| Ser Asn Phe Glu Asn Ile tou Thr Irp Asp Ser Glv Pro Glu Gly  | Thr       |  |  |  |  |  |  |  |  |  |  |  |
| Pro Asp Thr Val Ivr Ser Ile Glu Tyr Lys Thr Tyr Glv Glu Arg  | Asp       |  |  |  |  |  |  |  |  |  |  |  |
| 56 60<br>Trp Val Alalys Lys Gly Cvs Gln Arg Ile Thr Arglys Ser Cvs<br>65 70 5  | Asn<br>80 |  |  |  |  |  |  |  |  |  |  |  |

| Leu        | Thr        | 1 "                | ; i ;       | 1br<br>85    | sil,       | iosr)      | Estu       | , toi       | e i i i e<br>e ali j   | ંના        | iyr        | Tyr         | ·          | Ard<br>95   | √al        |
|------------|------------|--------------------|-------------|--------------|------------|------------|------------|-------------|------------------------|------------|------------|-------------|------------|-------------|------------|
| Thr        | Ald        | l fs v             | Ser.<br>100 |              | Gly        | (ilv       |            |             | $\Delta \uparrow_{cl}$ |            | Lvs        | Met         | Thr<br>110 | Asp         | Ang        |
| Phe        |            | Ser<br>115         | 1.60        | Gln          | His        | Thr        | Thr<br>120 | Leu         |                        | Pro        | Pro        | Asp<br>125  | Val        | Thr         | Cys        |
| Пe         | Sen<br>130 | Lys                | Val         | Arg          | Sen        | He<br>135  |            | Met         |                        | Val        | His<br>140 | Pro         | Thr        | Pro         | Thr        |
| Pro<br>145 | Пе         | Arq                | Ala         |              | Asp<br>150 | G          |            | Arq         |                        |            | [ •5#      |             | Asp        | 116         | Phe<br>160 |
| Hi:        | Asp        | <del>  -</del> ++1 | Phe         | Tyr<br>165   |            | 1 (2)1     |            |             |                        | Val        | Asn        | Arg         | Thr        | Tyr<br>175  | Gln        |
| Met        | His        | Γėπ                | Gly<br>180  | Gly          | Lys.       | Gln        | Arg        | Glu<br>185  | Tyr                    | Glu        | Phe        | Phe         | Gly<br>190 | Leu         | Thr        |
| Pro        | Азр        | Thr<br>195         | Glu         | Phe          | Leu        | Gly        | 1hr<br>200 | $\prod e_i$ | Met                    | He         | Cy5        | Val<br>205  | Pro        | Ihr         | Trp        |
| Ala        | Lys<br>210 | Glu                | Ser         |              | Pro        | -          |            | Cys         | Arg                    | Val        | Lys<br>220 | Thr         | Leu        | Pro         | Asp        |
| Ang<br>225 | Thr        | Irp                | Thr         | Gly          | Ser<br>230 | Gly        | Ser        | Gly         | Ser                    | Gly<br>235 | Ser        | Glu         | Pro        | Arg         | Ser<br>240 |
| Ser        | Asp        | + ys               | Thr         | His<br>245   | Thr        |            | Pro        | Pro         | Cys<br>250             | Pro        | ΕſΑ        | Pro         | Glu        | Ala<br>255  | Glu        |
| Gly        | Ala        | Pro                | Ser<br>260  | Val          | Phe        | Leu        | Phe        | Pro<br>265  | Pro                    | Lys        | £no        | Lys         | Asp<br>270 | Thr         | Leu        |
| Met.       | He         | Sen<br>275         | Arg         | Thr          | Pro        | Glu        | Val<br>280 | Thr         | Cys                    | Val        | Val        | Val<br>285  | Asp        | Val         | Ser        |
| His        | G1u<br>290 | Asp                | Pro         | Glu          |            | Ly:<br>295 |            | Asn         | Trp                    | Tyr        | Val<br>300 | Asp         | Gly        | Val         | Glu        |
| 7a1<br>305 | His        | Asn                | Ala         | Lys          | Thr<br>310 | Lys        | Pro        | Arq         | Glu                    | Glu<br>315 | Gln        | Tyr         | Asn        | Ser         | Thr<br>320 |
| Tyr        | Arq        | Val                | Val         | Ser<br>325   | Val        | Leu        | Thr        |             | 1 ou<br>330            |            | Glr        | Asp         | Trp        | Let.<br>335 | ≙sn        |
| Gly        | Lys        | Glu                | Tyr<br>340  | Lys          | () y §     | L y (      | Val        | Ser<br>345  | Asm                    | l, y's     | Ala        | teu         | Fro<br>350 | Ser         | Set.       |
| He         | Glu        | L ys<br>355        | Thr         | He           | Ser        | ! y:       | Ala<br>360 | 1 yrs       | Gly                    | Gln        | Fro        | Ariq<br>365 | Glu        | Pro         | Gln        |
| Val.       | Tyr<br>370 | Thr                | Leu         | Pro          | Pro        | Ser<br>375 | Arq        | Asp         | ülu                    | L+44       | Thr<br>380 | Lys         | Asn        | Gln         | Val        |
| 385        |            |                    |             |              | 300        |            |            |             |                        | 395        |            |             |            | Δla         | .100       |
| Glu        | Trp        | filia              | "r"         | Asin<br>Alab | Gly        | Gln        | Pro        |             | 41.00<br>41.00         | Asn        | Tyr        | Lyb         | Thr        | Thr<br>415  | Pro        |

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Pro Valleu Asposer Alphaly wor Pheliberted is new tys Leu Thr
           420
                                425
Val Asp Lys Ser Ard Tep olio olin Gly Ash val Phe Sen Cys Sen Val
                   440
                                        445
       435
Met His Glu Ala Leu His Ash His Tyr Thr Gli Lys Ser Leu Ser Leu
                       455
Ser Pro Gly Lys Leu Val Pro Arg Gly Ser Gly Ser Gly Gly Glu Tyr
465
                   470
                                     475
                                                            480
Mot Pro Met Glu
~ (10> 31
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<. 100- 32
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Antificial Sequence
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                                                                       23
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<211 - 199
<212 - PRT
内213~Homo sapiens
<400 > 53
Mot Val Pro Pro Pro Glu Ash Val And Met Alm John Val Ash Phe Lvs.
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Ash The Learning Tep Ala Sea on this less Ala List at Alabase Inc Phe Thr Alardho Tvr Leu Ser Car And Do Phe Glin Aspiro J. Met 100 Asm Thr Thr Leu Thr Glu Cvs Asp Phe Ser Ser Leu Ser Lys Tyr Gly 55 50 Asp His Ihr Leu Ang Val Ang Ala Glu Phe Ala Asp Glu His Ser Asp 7.0 7 L, frp Val Asn Ele Thr Phe Cys Pro Val Asp Asp Thr Ile Ile Gly Pro 96 85 Pro Gly Met Gln Val Glu Val Leu Ala Asp Ser Leu His Met Ara Phe ()() 105 Leu Ala Pro Lys Ile Glu Ash Glu Ivr Glu Thr Trp Thr Met Lys Ash 1.20 Val Tyn Asn Sen Inp Thn Tyn Asn Val Gln Tyn Tnp Lys Asn Gly Thn 135 140 Asp Glu Lys Phe Gln Ile Thr Pro Gln Tyr Asp Phe Glu Val Leu Arg 150 155 145160Ash Leu Glu Pro Trp Thr Thr Tyr Cvs Val Gln Val Arg Glv Phe Leu 165 170 Pro Asp Ang Asm Lys Ala Gly Glu Trp Ser Glu Pro Val Cys Glu Glm 180 185 Thir Thr His Asp Glu Thr Val 195

<.110 34

<111 211

-: 12 - PRI

<213> Homo sapiens

-400-34

Sen Asp Ala His Gly Thr Glu Leu Pro Sen Pro Pro Sen Val Irp Phe 1 5 10 15 Glu Ala Glu Phe Phe His His Ile Leu His Trp Thr Pro Ile Pro Asn 20 25 30 Gln Sen Glu Sen Thr Cys Tyr Glu Val Ala Leu Leu Ard Tyr Gly Ile 35 40 45 Glu Sen Irp Arm Sen Ile Sen Ash Cyr Sen Gln Ihr Leu Ler Tyr Asp 50 50 60 Leu Thr Ala val Thr Leu Asp Leu Tyr His Sen Ash Gly Tyr Ang Ala 65 0 50 80

Ang Val Ang Ala . I' Ali I'. For Ang Holl for Alm Top Tho val Tha Asn The Ang Phe Ser Lal Asg lalu Val The Leu The Val Glv Ser Val ]+)+) 105 Ash Leu Glu The His Ash Gly Phe The Leu Gly Lys The Gln Leu Pro 120 Ang Pro Lys Met Ala Pro Ala Ash Asp Thr Tyr Glu Ser Ile Phe Ser 1.10 135 His Phe Ang Glu Ivr Glu Fle Ala Fle Ang Eys Val Pho Gly Ash Phe 150 Thr Phe Thr His Lyo Lys Wal Lys His Glu Ash Phe Ser Leu Leu Thr ltio 1.70Ser Gly Glu val Gly Glu Phe Cys Val Gln val Lys Pro Ser Val Ala 180 185 190 een Ang Sen Ash Lys Gly Met Inp Sen Lys Glu Glu Cys Ile Sen Leu 200 205 Thr Arg Gln 210

+210> 35

<211> 201

+212> PRT

-213> Homo sapiens

+400 > 35

Asp Glu Val Ala Ile Leu Pro Ala Pro Gln Asm Leu Ser Val Leu Ser 1 5 10 15 Thin Ash Met Evs His Leu Leu Met Trp Sen Pro Val Ile Ala Pro Gly 25 Glu Ibn Val Tyn Tyn Sen Val Glu Tyn Glo Giy Glu Tyn Glu Sen Leu 45 40 Tyn Thn Sen His Ile Imp Ile Pho Sen Sen Imp Cys Sen Leu Ihn Glu 60 55 Gly Pro Glu Cys Asp Val Thr Asp Asp Ile Thr Ala Thr Val Pro Tyr 1) Ash Leu Ang Val Ang Ala Thr Leu Gly Ser Iln Thr Ser Ala Inp Ser 14() 취임 The Leu Lys Him in the Ash And And Ash San Thr The Leu Thr And Pro-105 Gly Met alo The Thritys Aspesty Phase to Leaval The Glo Lea alo 115 1,711

Appropriate from the feet of the feet valuation in page Ang Glucian (12). The feet valuation (14). The feet valuation Met Valuation (14). The feet of the feet valuation (15) and the feet of the feet of the feet valuation (15). The feet of the feet valuation (15) and the feet of the feet of the feet valuation (15) and the feet of the feet valuation (15). The feet valuation (15) and the feet of the feet valuation (15) and the feet valuation (15) an

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195